SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: <u>Be</u>	a Sackey	Examiner #	73489	Date:	9/15/	03
Requester's Full Name: Be. Art Unit 1424 Phone? Mail Box and Bldg Room Location	Number 30 5- 688	Serial S	Sumber: /o /	066,	DISK	E MAI
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Please provide a detailed statement of the include the efected species or structures, lithly of the invention. Define any terms thown. Please attach a copy of the cover	search topic, and describe a keywords, synonyms, acrony that may have a special me	is specifically a yms, and registi aning. Give ex	s possible the sub y numbers, and c	gect matter to	to be sear h the con	ched.
Title of Invention:						
nventors (please provide full names):						
Earliest Priority Filing Date.						
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DIALOG(R)File 452:Drug Data Report
(c) 2003 Prous Science. All rts. reserv.
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AZ - 00198235

AA - 198235 (Preferred)

MF - C9H9N2O5P

CN - 4-(Phosphonomethyl)-1H- benzimidazole -2- carboxylic acid

ST - Biological Testing

OR - Pharmacia

TC - 12452 (Stroke, Treatment of)

12455 (NMDA Antagonists)

RE - 200776 (secondary)

200777 (secondary)

200778 (secondary)

200779 (secondary)

200780 (secondary) 200781 (secondary)

200782 (secondary)

200783 (secondary)

200784 (secondary)

200785 (secondary)

200786 (secondary)

200787 (secondary)

200788 (secondary)

200789 (secondary)

TX - ACTION: Agent for the treatment of neurotoxic injury associated with anoxia or ischemia following stroke, cardiac arrest or perinatalasphyxia; an NMDA receptor antagonist with a Ki = 1.6 mcM in the(3H)-glutamate binding assay, whereas Ki was > 100 mcM when using(3H)-kainate as the ligand. Significant in vivo antiischemic activity was demonstrated in a gerbil forebrain ischemia assay when givenintraperitoneally at doses of 300 and 500 mg/kg, 30 min prior tocarotid occlusion. Compound also exhibited anticonvulsant activity, as demonstrated by inhibiting electroconvulsive shock in mice and byprotecting against motor function impairment at a dose of 56 mg/kgs.c. A representative compound from a wide series of specificallyclaimed diacid-containing benzimidazole derivatives, wherein thefollowing are included: 200776, 200777, 200778, 200779, 200780, 200781, 200782, 200782,

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200784, 200785, 200786, 200787, 200788,200789. (Drug Data Report, Vol. 15,
No. 10, p. 907, 1993)
PU - Drug Data Report, Vol. 15, No. 10, p. 907, 1993
PI - DIACID-CONTAINING BENZIMIDAZOLE COMPOUNDS FOR TREATMENT OF
                                                                 NEUROTOXICINJURY
                 AUTHOR(s):
                                                                 Vazquez, M.L.
                APPLICANT(s):
                                                                 Pharmacia
                 FAMILY:
                                                                 5,216,003
                                                                                                    [US 5216003] United States of America, June
                                                                 1, 1993
                 PRIORITY:
                                                                 2-816,207 [US 816207]
                                                                                                                                                United States of America,
                                                                 January 2, 1992
?e aa=315794
Ref
                    Items
                                          Index-term
                                          AA=315792
E1
                                1
E2
                                 1
                                        AA=315793
                                1 *AA=315794
ΕЗ
E4
                                1
                                          AA=315795
E5
                                 1
                                          AA=315796
E6
                                1
                                          AA=315803
Ε7
                                1
                                          AA=315806
Ε8
                                1
                                          AA=315807
E9
                                1
                                          AA=315808
E10
                                1
                                          AA=315809
E11
                                1
                                          AA=315810
E12
                                        AA=315811
                                Enter P or PAGE for more
?s aa=315794
                   S4
                                                 1 AA=315794
?t 4/14/1
   4/14/1
DIALOG(R) File 452: Drug Data Report
(c) 2003 Prous Science. All rts. reserv.
AZ - 00315794
AA - 315794
                                           (Preferred)
MF - C11H8N6O5
CN - 5 - (5 - Amino - 1, 3, 4 - oxadiazol - 2 - yl) - 6 - methyl - 7 - nitroquinoxaline - 2, 3(1H, 4H) - 2 - yl) - 6 - yl) - 7 - yl) - yl) - 7 - yl) - y
                )-dione
                                                   N
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ST - Biological Testing OR - Pfizer TC - 9200 (Cognition Disorders, Treatment of) 33456 (Ischemic Stroke, Treatment of) 12457 (AMPA Antagonists) RE - 315795 (secondary) TX - ACTION: Glutamate antagonist with in vitro activity against AMPAreceptors and the glycine site of NMDA receptors. Potentially usefulfor the treatment of cerebral ischemia, chronic neurodegenerativedisorders including Alzheimer's disease, Parkinson's disease and Huntington's disease, seizure disorders, schizophrenia, anxiety, pain and drug abuse. Another exemplified quinoxaline-2,3-dione derivative is:315795. (Drug Data Report, Vol. 24, No. 4, p. 313, 2002) PU - Drug Data Report, Vol. 24, No. 4, p. 313, 2002 PI - CONFORMATIONALLY SEMI-CONSTRAINED QUINOXALINE 2,3-DIONES ASNEUROPROTECTIVE AGENTS Rafferty, M.F., Kornberg, B.E., Nikam, S.S. AUTHOR(s): APPLICANT(s): Pfizer 6,340,758 [US 6340758] United States of America, FAMILY: January 22, 2002 PRIORITY: 2-46,626 [US 46626] United States of America, May 16, 1997 2-25,295 [US 25295] United States of America, February 13, 1998 2-199,627 [US 199627] United States of America, November 25, 1998 ?s aa=225249 S5 1 AA=225249 ?t 5/14/1 5/14/1 DIALOG(R) File 452: Drug Data Report (c) 2003 Prous Science. All rts. reserv. AZ - 00225249 AA - 225249 (Preferred) MF - C12H9N3O CN - 6-Phenylimidazo(1,2-a)pyrazin-8(7H)-one

ST - Biological Testing OR - Aventis Pharma

TC - 9200 (Cognition Disorders, Treatment of)

11100 (Antiparkinsonian Drugs) 12452 (Stroke, Treatment of)

12455 (NMDA Antagonists) 12457 (AMPA Antagonists) RE - 227609 (secondary) 227610 (secondary) 227611 (secondary) 227612 (secondary) TX - ACTION: Noncompetitive antagonist at the glycine site of the NMDAreceptor, potentially useful for the treatment and prophylaxis ofcerebral ischemic/anoxic disorders, and for the treatment ofneurodegenerative disorders such as parkinsonism and Alzheimer's disease, as well as epilepsy, schizophrenia and migraine. Otherexemplified imidazopyrazinones include the following: 227609, 227610, 227611, 227612. (Drug Data Report, Vol. 17, No. 11, p. 989, 1995) PU - Drug Data Report, Vol. 17, No. 11, p. 989, 1995 PI - 7H-IMIDAZO(1,2-A) PYRAZINE-8-ONE NMDA RECEPTOR ANTAGONISTS AUTHOR(s): Aloup, J.-C., Mignani, S., Jimonet, P., Audiau, F., Damour, D., Genevois-Borella, A. Aventis Pharma APPLICANT(s): FAMILY: 0726900 [EP 0726900] European Patent Office, August 21, 1996 6-97504539 [JP 697504539] Japan, May 6, 1997 WO95-12594 [WO 9512594] W.I.P.O., May 11, 1995 [FR 9313164] France, November 5, 1993 PRIORITY: 13164 ?s aa=240624 AA=240624 S6 ?t 6/14/1 6/14/1 DIALOG(R) File 452: Drug Data Report (c) 2003 Prous Science. All rts. reserv. AZ - 00240624 AA - 240624 (Preferred) MF - C18H10CL2N2O3 CN - 4,6-Dichloro-3-(N-phenylcarbamoylethynyl)-1H-indole-2-carboxylic acid RN - 153436-32-9 ST - Preclinical OR - GlaxoSmithKline TC - 12452 (Stroke, Treatment of) (NMDA Antagonists) 12455 An NMDA antagonist acting at the TX - ACTION: strychnine-insensitiveglycine binding site and structurally related to

GV-150526, for usein the treatment of CNS disorders such as stroke,

Huntington'sdisease, Alzheimer's disease and neurotrauma. Its affinity (pKi

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=7.7) is inferior to that of GV-150526 (pKi = 8.5), but it displayedgood in
vivo activity in mice against NMDA-induced convulsions (ED50= 0.2 mg/kg
i.v.; ED50 GV-150526 = 0.06 \text{ mg/kg i.v.}). (Drug Data Report, Vol. 18, No.
11, p. 966, 1996)
PU - Drug Data Report, Vol. 18, No. 11, p. 966, 1996
PI - INDOLE ANTAGONISTS OF EXCITATORY AMINO ACIDS
                    Gaviraghi, G., Cugola, A.
     AUTHOR(s):
                    GlaxoSmithKline
     APPLICANT(s):
                    1006343
                                [BE 1006343] Belgium, July 26, 1994
     FAMILY:
                    685630
                                [CH 685630]
                                              Switzerland, August 31, 1995
                                [EP 0568136]
                    0568136
                                             European Patent Office,
                    November 3, 1993
                               [ES 2105924]
                                              Spain, October 16, 1997
                    2105924
                                              France, November 12, 1993
                    2690919
                                [FR 2690919]
                                             Great Britain, October 20,
                    2266091
                                [GB 2266091]
                    1993
                    6-94049027 [JP 694049027] Japan, February 22, 1994
                    5,373,018 [US 5373018]
                                             United States of America,
                    December 13, 1994
                    5,374,648 [US 5374648]
                                             United States of America,
                    December 20, 1994
                    5,374,649 [US 5374649]
                                             United States of America,
                    December 20, 1994
                    WO93-21153 [WO 9321153] W.I.P.O., October 28, 1993
                                            Great Britain, April 16, 1992
     PRIORITY:
                               [GB 928492]
                    928492
RF - Di Fabio, R. et al., "3-Alkynyl-2-carboxyindoles as a novel class of
     antagonists acting at he strychnine-insensitive glycine binding site",
     14th Int Symp Med Chem (Sept 8-12, Maastricht) 1996, Abst P-6.17
?s aa=257448
               1 AA=257448
      S7
?t 7/14/1
 7/14/1
DIALOG(R) File 452: Drug Data Report
(c) 2003 Prous Science. All rts. reserv.
AZ - 00257448
AA - 257448 (Preferred)
MF - C16H11N3O2
CN - 2-Phenyl-2,3,4,5-tetrahydro-1H-pyridazino(4,5-b)indole-1,4-dione
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ST - Biological Testing
OR - Merck Sharp & Dohme
TC - 9200 (Cognition Disorders, Treatment of)
10000 (Antiepileptic Drugs)
11100 (Antiparkinsonian Drugs)

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12455 (NMDA Antagonists)
TX - ACTION:
                    Selective and noncompetitive NMDA receptor antagonist
that preferentially binds to the strychnine-insensitive glycine bindingsite
associated with the NMDA receptor complex. Compound blocked theresponse to
NMDA in rat cortex slices (Kb < 150 mcM) and displaced(3H)-L-689560 binding
to the strychnine-insensitive site in ratforebrain membranes (IC50 < 50
mcM). Potentially useful in thetreatment or prevention of neurodegenerative
disorders such asstroke, cerebral ischemia, epilepsy, Huntington's chorea,
Alzheimer's disease, Parkinson's disease and anoxia. (Drug Data Report,
Vol. 20, No. 2, p. 121, 1998)
PU - Drug Data Report, Vol. 20, No. 2, p. 121, 1998
PI - PYRIDAZINO-INDOLE DERIVATIVES
                    Macleod, A.M., Ladduwahetty, T.
     AUTHOR(s):
                    Merck Sharp & Dohme
     APPLICANT(s):
     FAMILY:
                    5,693,640 [US 5693640] United States of America,
                    December 2, 1997
     PRIORITY:
                    9411955
                               [GB 9411955] Great Britain, June 15, 1994
?s phenylsulfanyl/cn
      S8
             300 PHENYLSULFANYL/CN
?s s8 and quinolin
             300
                 S8
            2069
                 QUINOLIN
               8 S8 AND QUINOLIN
      S9
?s s9 and chloro/cn
               8 S9
            9353 CHLORO/CN
     S10
               4 S9 AND CHLORO/CN
?t 10/k/1-4
 10/K/1
DIALOG(R) File 452: (c) 2003 Prous Science. All rts. reserv.
CHEM NAME:
               2-(3-(9- Chloro -4-oxo-3-(phenylsulfanyl)-4,5-dihydroisoxa
               zolo(4,3-c) quinolin -5-yl)phenyl)-N-(3,4,5-trimethoxyphenyl)
               )acetamide
10/K/2
DIALOG(R) File 452: (c) 2003 Prous Science. All rts. reserv.
               7- Chloro -4-hydroxy-3-( phenylsulfanyl ) quinolin -2(1H)-on
CHEM NAME:
10/K/3
DIALOG(R) File 452:(c) 2003 Prous Science. All rts. reserv.
               1-(4- Chloro -3-( phenylsulfanyl ) quinolin -2-yl)-4-(2-naph
CHEM NAME:
               thylmethyl)piperazine
DIALOG(R) File 452:(c) 2003 Prous Science. All rts. reserv.
               N-(1-Benzylpiperidin-4-yl)-N-(4- chloro -3-( phenylsulfanyl
CHEM NAME:
               ) quinolin -2-yl)amine
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33456 (Ischemic Stroke, Treatment of)

10/14/2

DIALOG(R) File 452: Drug Data Report

(c) 2003 Prous Science. All rts. reserv.

AZ - 00269005

AA - 269005 (Preferred)

MF - C15H10CLNO2S

CN - 7- Chloro -4-hydroxy-3-(phenylsulfanyl) quinolin -2(1H)-one

ST - Biological Testing

OR - Korea Res. Inst. Chem. Technol.

TC - 12450 (Cerebrovascular Diseases, Treatment of)

12455 (NMDA Antagonists)

RE - 269006 (secondary)

269007 (secondary)

269008 (secondary)

269009 (secondary)

269010 (secondary)

269011 (secondary)

269012 (secondary)

269013 (secondary)

269014 (secondary)

269015 (secondary)

TX - ACTION: Potent and specific antagonist at the strychnine-insensitive glycine binding site on the NMDA receptor complex, reported topossess good CNS penetration and high solubility. Claimed for thetreatment or prevention of ischemic, hypoxic or hypoglycemic CNSdamage, neurodegenerative disorders such as Alzheimer's disease, Huntington's disease, Parkinson's disease, epilepsy and stroke, aswell as for use as an anticonvulsant, analgesic, antidepressant, anxiolytic and antipsychotic agent. A representative compound from aseries of quinolinic sulfide derivatives, wherein the following arealso included:269006, 269007, 269008, 269009, 269010, 269011, 269012, 269013, 269014, 269015. (Drug Data Report, Vol. 20, No. 11, p. 932, 1998)

PU - Drug Data Report, Vol. 20, No. 11, p. 932, 1998

PI - QUINOLINIC SULFIDE DERIVATIVES ACTING AS NMDA RECEPTOR ANTAGONISTS ANDPROCESC FOR PREPARATION THEREOF

AUTHOR(s): Kong, J.Y., Jung, Y.S., Lee, C.W., Choi, S.W., Park, N.S., Seong, C.M., Chon, J.I., Chung, Y.J., Park, W.K.

APPLICANT(s): Korea Res. Inst. Chem. Technol.

FAMILY: 0869122 [EP 0869122] European Patent Office,

October 7, 1998

6-98310575 [JP 698310575] Japan, November 24, 1998

5,990,126 [US 5990126] United States of America, November 23, 1999 11958 [KR 9711958] N/A, March 31, 1997 13818 [KR 9713818] N/A, April 15, 1997 58546 [KR 9758546] N/A, November 6, 1997

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PRIORITY: